

Applicants: Nolan and Filshie  
Application No.: 09/342,024  
Filed: June 28, 1999  
Page 3

**In the Claims**

Please cancel claims 2-4, 6, 13-16, 18 and 23-29 without prejudice.

Please amend claims 1 and 39 to read as follows:

1. (Twice Amended) A method for introducing nucleic acid into a cell of a mammalian subject in vivo, comprising:

contacting the mammalian subject with an isolated nucleic acid sequence via injection of the nucleic acid into the subject at a site near the cell into which the nucleic acid is to be introduced;

selecting a combination of a low electric field impulse of about 300 volts per centimeter to about 600 volts per centimeter and a long pulse length of about 10 milliseconds to about 100 milliseconds; and

applying the low electrical field impulse in combination with the long pulse length at or near the site of injection, wherein the impulse is of sufficient duration and strength to allow introduction of the nucleic acid into the cell.

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Page 4

39. (Amended) A method for introducing nucleic acid into a cell of a mammalian subject in vivo, comprising:

contacting the mammalian subject in vivo with an isolated nucleic acid sequence via perfusion of the nucleic acid into the subject;

selecting a combination of a low electric field impulse of about 300 volts per centimeter to about 600 volts per centimeter and a long pulse length of about 10 milliseconds to about 100 milliseconds; and

applying the low electrical field impulse in combination with the long pulse length at or near the cell into which the nucleic acid is to be introduced, wherein the impulse is of sufficient duration and strength to allow introduction of the nucleic acid into the cell.